

```

UUU      UUU      EEEEEEEEEEEEEEE      TTTTTTTTTTTTTT      PPPPPPPPPPP      SSSSSSSSSSS      YYY      YYY
UUU      UUU      EEEEEEEEEEEEEEE      TTTTTTTTTTTTTT      PPPPPPPPPPP      SSSSSSSSSSS      YYY      YYY
UUU      UUU      EEEEEEEEEEEEEEE      TTTTTTTTTTTTTT      PPΓPPPPPPPP      SSSSSSSSSSS      YYY      YYY
UUU      UUU      EEE      TTT      PPP      PPP      SSS      YYY      YYY
UUU      UUU      EEE      TTT      PPP      PPP      SSS      YYY      YYY
UUU      UUU      EEE      TTT      PPP      PPP      SSS      YYY      YYY
UUU      UUU      EEE      TTT      PPP      PPP      SSS      YYY      YYY
UUU      UUU      EEE      TTT      PPP      PPP      SSS      YYY      YYY
UUU      UUU      EEE      TTT      PPP      PPP      SSS      YYY      YYY
UUU      UUU      EEE      TTT      PPP      PPP      SSS      YYY      YYY
UUU      UUU      EEE      TTT      PPP      PPP      SSS      YYY      YYY
UUU      UUU      EEEEEEEEEEEEE      TTT      PPPPPPPPPPP      SSSSSSSSS      YYY
UUU      UUU      EEEEEEEEEEEEE      TTT      PPPPPPPPPPP      SSSSSSSSS      YYY
UUU      UUU      EEEEEEEEEEEEE      TTT      PPPPPPPPPPP      SSSSSSSSS      YYY
UUU      UUU      EEE      TTT      PPP      SSS      YYY
UUU      UUU      EEE      TTT      PPP      SSS      YYY
UUU      UUU      EEE      TTT      PPP      SSS      YYY
UUU      UUU      EEE      TTT      PPP      SSS      YYY
UUU      UUU      EEE      TTT      PPP      SSS      YYY
UUU      UUU      EEE      TTT      PPP      SSS      YYY
UUU      UUU      EEE      TTT      PPP      SSS      YYY
UUUUUUUUUUUUUUUUUU      EEEEEEEEEEEEE      TTT      PPP      SSSSSSSSSSS      YYY
UUUUUUUUUUUUUUUUUU      EEEEEEEEEEEEE      TTT      PPP      SSSSSSSSSSS      YYY
UUUUUUUUUUUUUUUUUU      EEEEEEEEEEEEE      TTT      PPP      SSSSSSSSSSS      YYY

```

[illegible]

```

SSSSSSSS  AAAAAA  TTTTTTTT  SSSSSSSS  SSSSSSSS  FFFFFFFF  11  222222
SSSSSSSS  AAAAAA  TTTTTTTT  SSSSSSSS  SSSSSSSS  FFFFFFFF  11  222222
SS        AA      AA      TT      SS        SS        FF        1111  22      22
SS        AA      AA      TT      SS        SS        FF        1111  22      22
SS        AA      AA      TT      SS        SS        FF        11      22      22
SS        AA      AA      TT      SS        SS        FF        11      22      22
      SSSSSS  AA      AA      TT      SSSSSS  SSSSSS  FFFFFFFF  11      22
      SSSSSS  AA      AA      TT      SSSSSS  SSSSSS  FFFFFFFF  11      22
      SS      AAAAAAAAAA  TT      SS      SS      FF        11      22
      SS      AAAAAAAAAA  TT      SS      SS      FF        11      22
      SS      AA      AA      TT      SS      SS      FF        11      22
      SS      AA      AA      TT      SS      SS      FF        11      22
SSSSSSSS  AA      AA      TT      SSSSSSSS  SSSSSSSS  FF        111111  2222222222
SSSSSSSS  AA      AA      TT      SSSSSSSS  SSSSSSSS  FF        111111  2222222222
.....
.....
.....
.....

LL        IIIIII  SSSSSSSS
LL        IIIIII  SSSSSSSS
LL        II      SS
LL        II      SS
LL        II      SS
LL        II      SS
LL        II      SSSSSS
LL        II      SSSSSS
LL        II      SS
LL        II      SS
LL        II      SS
LL        II      SS
LLLLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLLLL  IIIIII  SSSSSSSS

```

(1)	52	DECLARATIONS
(1)	213	SATSSF12
(1)	300	SFERG10
(1)	323	SFERG11
(1)	346	SFERG12
(1)	369	SFERG20
(1)	391	SFERG21
(1)	414	SFERG22
(1)	438	SFERG23
(1)	461	SFERG24
(1)	488	SFCRG10
(1)	511	SFCRG11
(1)	534	SFCRG12
(1)	557	SFCRG13
(1)	583	SFCRG20
(1)	608	SFCRG21
(1)	631	SFCRG22
(1)	654	SFCRG23
(2)	678	SFCRG24
(2)	705	SFSPT10
(2)	732	SFSPT11
(2)	757	SFSPT12
(2)	780	SFSPT13
(2)	802	SFSPT14
(2)	824	SFSPT20
(2)	846	SFSPT21
(2)	868	SFSPT22
(2)	891	SFSPT40
(2)	913	SFSPT41
(2)	935	SFSPT50
(2)	957	SFSPT51
(2)	983	SFSSM10
(2)	1096	EXECUTE & CLEANUP
(2)	1105	TC CONTROL
(2)	1186	SUBROUTINES



```
0000 1      .TITLE  SATSSF12 - SATS SYSTEM SERVICE TESTS (FAILING S.C.)
0000 2      .IDENT  'V04-000'
0000 3
0000 4
0000 5 *****
0000 6
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0000 24
0000 25 *****
0000 26
0000 27
0000 28
0000 29 ++
0000 30 FACILITY:      SATS SYSTEM SERVICE TESTS
0000 31
0000 32 ABSTRACT:      THE SATSSF12 MODULE TESTS THE EXECUTION OF CERTAIN
0000 33 VMS SYSTEM SERVICES, INVOKED IN SUCH A WAY AS TO EXPECT FAILING
0000 34 STATUS CODES. THE SYSTEM SERVICES TESTED AND THE STATUS CODES
0000 35 EXPECTED ARE SUMMARIZED AS ARGUMENTS TO THE TESTSERV MACROS
0000 36 WHICH APPEAR NEAR THE END OF THIS LISTING. SUCCESSFUL STATUS
0000 37 CODES ARE TESTED IN OTHER MODULES.
0000 38
0000 39
0000 40 ENVIRONMENT:    USER MODE IMAGE; NEEDS CMKRNL PRIVILEGE,
0000 41 DYNAMICALLY ACQUIRES OTHER PRIVILEGES, AS NEEDED.
0000 42
0000 43 AUTHOR: THOMAS L. CAFARELLA,      CREATION DATE: MMM, 1978
0000 44 PAUL D. FAY (DISPSERV & TESTSERV MACROS)
0000 45
0000 46 MODIFIED BY:
0000 47
0000 48 : VERSION
0000 49 01
0000 50 --
```

```
0000 52 .SBTTL DECLARATIONS
0000 53 :
0000 54 : INCLUDE FILES:
0000 55 :
0000 56 $PHDDEF ; PROCESS HEADER OFFSET SYMBOLS
0000 57 $PCBDEF ; PROCESS CONTROL BLOCK OFFSET SYMBS
0000 58 $STSDEF ; STATUS MESSAGE SYMBOLS
0000 59 $PRVDEF ; SYMBOL DEFS FOR PRIVILEGES
0000 60 $UETPDEF ; UETP MSG CODE DEFINITIONS
0000 61 $SHR_MESSAGES UETP,116,<<TEXT,INFO>>
0000 62 :
0000 63 : DEFINE UETPS TEXT
0000 64 $PSLDEF ; GET RID OF MACRO DEFINITIONS
0000 65 : ACCESS MODE SYMBOLS
0000 66 :
0000 67 : MACROS:
0000 68 :
0000 69 : EQUATED SYMBOLS:
0000 70 :
00000000 0000 71 WARNING = 0 ; WARNING SEVERITY VALUE FOR MSGS
00000001 0000 72 SUCCESS = 1 ; SUCCESS SEVERITY VALUE FOR MSGS
00000002 0000 73 ERROR = 2 ; ERROR SEVERITY VALUE FOR MSGS
00000003 0000 74 INFO = 3 ; INFORMATIONAL SEV VALUE FOR MSGS
00000004 0000 75 SEVERE = 4 ; SEVERE (FATAL) SEV VALUE FOR MSGS
00000000 0000 76 TCG_NO = 0 ; INITIALIZE TEST CASE GROUP NUMBER
00000000 0000 77 GRP_TOTAL = 0 ; INITIALIZE TEST CASE GROUP TOTAL
00007FFF 0000 78 R0 THRU SP = ^M<R0,R1,R2,R3,R4,R5,R6,R7,R8,R9,R10,R11,AP,FP,SP>
00000001 0000 79 RETADR_ERG20 = 1 ; RETADR ARG FOR EXPREG (LOCATION 1)
00000001 0000 80 RETADR_CRG20 = 1 ; RETADR ARG FOR CNTREG (LOCATION 1)
00000000 0000 81 INADR_SPT13 = 0 ; INADR ARG FOR SETPRT (LOCATION 0)
00000001 0000 82 RETADR_SPT20 = 1 ; RETADR ARG FOR SETPRT (LOCATION 1)
00000001 0000 83 PRVPRT_SPT50 = 1 ; PRVPRT ARG FOR SETPRT (LOCATION 1)
0000 84 :
0000 85 : OWN STORAGE:
0000 86 :
```



```
00000000 88 .PSECT RODATA, RD, NOWRT, NOEXE, LONG
BFFC 0000 89 REG_COMP_MASK: .WORD ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11,AP,FP> ! ^X8000 -
0002 90 ; REG COMPARE MASK (HIGH-ORDER ...
0002 91 ; ... BIT MUST BE ON
0002 92 ERR_MSG_FAOCTL: STRING 1, <!!AC!1ZB!1ZB: REGISTER !2UW CONTENTS ALTERED>, -
0002 93 <; BEFORE SERVICE CALL: !8XL AFTER SERVICE CALL: !8XL>
006E 94 TEST_MOD_NAME: STRING C, <SATSSF12> ; TEST MODULE NAME
0077 95 TEST_MOD_BEG: STRING C, <begun> ; DISPOSITION FIELD OF TEST MOD MSG
007D 96 TEST_MOD_SUCC: STRING C, <successful> ; DISPOSITION FIELD OF TEST MOD MSG
0088 97 TEST_MOD_FAIL: STRING C, <failed> ; DISPOSITION FIELD OF TEST MOD MSG
008F 98 TEST_MOD_NAME_D: STRING 1, <SATSSF12> ; TEST MODULE NAME DESCRIPTOR
009F 99 TTNAME: STRING 1, <TT> ; TERMINAL LOGICAL NAME
00000000' 00000000' 00A9 100 INADR: .LONG NOACCESS, NOACCESS ; PAGE ADDRESS OF NOACCESS PSECT
00000000' 00B1 101 PROT: .LONG PRTSC_NA ; PROTECTION CODE FOR NOACCESS PSECT
FFFFFFFF FFFFFFFF 00B5 102 ONES: .LONG -1, -1 ; A QUADWORD OF 1-BITS
00000002 00BD 103 PAGCNT_ERG: .LONG 2 ; PAGCNT ARGUMENT FOR EXPREG
000000C9 00C1 104 RETADR_ERG21: .BLKL 2 ; RETADR ARGUMENT FOR EXPREG
00C9 105 ACMODE_ERG: ; ACMODE ARGUMENT FOR EXPREG
00C9 106 ACMODE_CRG: ; ACMODE ARGUMENT FOR CNTREG
00C9 107 ACMODE_SPT: ; ACMODE ARGUMENT FOR SETPRT
00000003 00C9 108 .LONG PSL$C_USER
00CD 109 REGION_ERG: ; REGION ARG FOR EXPREG (PGM REGION)
00CD 110 REGION_CRG: ; REGION ARG FOR CNTREG (PGM REGION)
00000000 00CD 111 .LONG 0
00000001 00D1 112 PAGCNT_CRG: .LONG 1 ; PAGCNT ARGUMENT FOR CNTREG
00000001 00D5 113 PAGCNT_CRG13: .LONG 1 ; PAGCNT ARGUMENT FOR CNTREG
000000E1 00D9 114 RETADR_CRG21: .BLKL 2 ; RETADR ARGUMENT FOR CNTREG
80000000' 00E1 115 INADR_SPT11: .ADDRESS ^X80000000 ; INADR ARGUMENT FOR SETPRT
8F000000' 00E5 116 .ADDRESS ^X8F000000 ;
000000F1 00E9 117 RETADR_SPT21: .BLKL 2 ; RETADR ARGUMENT FOR SETPRT
00000000' 00F1 118 PROT_SPT: .LONG PRTSC_UW ; PROT ARGUMENT FOR SETPRT
00000000' 00F5 119 PROT_SPT40: .LONG PRTSC_RESERVED ; PROT ARG (CODE 1 -- NO ACCESS) FOR SETPRT
00000010 00F9 120 PROT_SPT41: .LONG 16 ; PROT ARGUMENT FOR SETPRT
000000FE 00FD 121 PRVPRT_SPT51: .BLKB 1 ; PRVPRT ARGUMENT FOR SETPRT
00000000 00FE 122 SWPFLG_SSM: .LONG 0 ; SWPFLG ARGUMENT FOR SETSWM
00000001 0102 123 SWPFLG_SSM10: .LONG 1 ; SWPFLG ARGUMENT FOR SETSWM
```

```
00000000 125 .PSECT RWDATA,RD,WRT,NOEXE
00000004 0000 126 TPID: .BLKL 1 : PROCESS ID FOR THIS PROCESS
00000008 0004 127 CURRENT_TC: .BLKL 1 : PTR TO CURRENT TEST CASE
00000044 0008 128 REG_SAVE_AREA: .BLKL 15 : SAVE AREA FOR ALL REGS (SANS PC)
007480D9 0044 129 MOD_MSG_CODE: .LONG UETPS_SATSMS : TEST MODULE MSG CODE FOR PUTMSG
0000004C 0048 130 CLOB_REG_NO: .BLKL 1 : CLOBBED REG NO (FOR FAO ERR MSG)
00000050 004C 131 REG_BEFORE_SS: .BLKL 1 : REG CONTENTS BEFORE S.S.
00000054 0050 132 : (FOR FAO ERROR MSG)
00000054 0050 133 REG_AFTER_SS: .BLKL 1 : REG CONTENTS AFTER S.S.
00000054 0054 134 : (FOR FAO ERROR MSG)
00000054 0054 135 $$TSTNSS: STRING C,< SF > : ASCII PORTION OF TEST CASE NAME
0000006E 005C 136 TMN_ADDR: .ADDRESS TEST_MOD_NAME : ADDR OF TEST MOD NAME FOR FAO
00000077 0060 137 TMD_ADDR: .ADDRESS TEST_MOD_BEG : ADDR OF T.M. DISP FIELD FOR FAO
00000068 0064 138 TS_EP: .BLKL 1 : ENTRY PNT FOR CURR TESTSERV MACRO
00000070 0068 139 RETADR: .BLKL 2 : RETURN LONGWORDS FOR SETPRT
00000071 0070 140 PRVPRT: .BLKB 1 : PROT RETURN BYTE FOR SETPRT
00000079 0071 141 PRIVMASK: .BLKQ 1 : ADDR OF PRIVILEGE MASK (IN PHD)
0000007D 0079 142 CHM_CONT: .BLKL 1 : CHANGE MODE CONTINUE ADDRESS
00000091 007D 143 REGS: .BLKL 5 : AREA FOR COND INDEX REGS (R2-R6)
00000091 0091 144 PAGCNT_ERG10: : PAGCNT ARGUMENT FOR EXPREG
00000091 0091 145 PAGCNT_ERG11: : PAGCNT ARGUMENT FOR EXPREG
00000091 0091 146 PAGCNT_ERG12: : PAGCNT ARGUMENT FOR EXPREG
00000091 0091 147 PAGCNT_CRG10: : PAGCNT ARGUMENT FOR CNTREG
00000091 0091 148 PAGCNT_CRG11: : PAGCNT ARGUMENT FOR CNTREG
00000091 0091 149 PAGCNT_CRG12: : PAGCNT ARGUMENT FOR CNTREG
00000095 0091 150 :
00000000 00000000 0095 151 RETADR_ERG: .LONG 0.0 : RETADR ARGUMENT FOR EXPREG
00000000 00000000 009D 152 RETADR_CRG: .LONG 0.0 : RETADR ARGUMENT FOR CNTREG
000000AD 00A5 153 RETADR_CRG13: .BLKL 2 : RETADR ARG FOR NON-SUBJECT EXPREG
000000B5 00AD 154 INADR_SPT: .BLKL 2 : INADR ARGUMENT FOR SETPRT SERVICE
000000BD 00B5 155 INADR_SPT10: .BLKL 2 : INADR ARGUMENT FOR SETPRT SERVICE
000000C5 00BD 156 EXP_RANGE: .BLKQ 1 : EXPREG RANGE FOR SFPRT10
000000CD 00C5 157 INADR_SPT12: .BLKL 2 : INADR ARGUMENT FOR SETPRT SERVICE
000000D5 00CD 158 RETADR_SPT: .BLKL 2 : RETADR ARGUMENT FOR SETPRT SERVICE
000000D6 00D5 159 PRVPRT_SPT: .BLKB 1 : PRVPRT ARGUMENT FOR SETPRT
```



```
00000000 161 .PSECT SATS_ACCVIO_1,RD,WRT,NOEXE,PAGE
00000200 0000 162 EMPTY: .BLKB 512 ; RESERVE A PAGE OF SPACE
0200 163 :
0200 164 : +
0200 165 : *****
0200 166 : *
0200 167 : * THE ORDER OF STATEMENTS IN THIS PSECT IS CRITICAL.
0200 168 : * DO NOT RE-ARRANGE THE VARIABLES. CONSULT SATS
0200 169 : * FUNCTIONAL SPECIFICATION FOR A DESCRIPTION OF THE USE
0200 170 : * OF THE EMPTY PSECT (AND ITS COMPANION PSECT, NOACCESS).
0200 171 : *
0200 172 : *****
0200 173 : -
0200 174 :
0200 175 : TYPE AAAAA_SSSX1 (TYPE AAAAA_SSSX2 IF NOT DESC) GO HERE:
000001FC 0200 176 RETADR_ERG22 = . - 4 ; RETADR ARGUMENT FOR EXPREG
000001FF 0200 177 RETADR_ERG23 = . - 1 ; RETADR ARG FOR EXPREG (LAST BYTE IN PAGE)
000001F9 0200 178 RETADR_ERG24 = . - 7 ; RETADR ARGUMENT FOR EXPREG
000001FC 0200 179 RETADR_CRG22 = . - 4 ; RETADR ARGUMENT FOR CNTREG
000001FF 0200 180 RETADR_CRG23 = . - 1 ; RETADR ARG FOR CNTREG (LAST BYTE IN PAGE)
000001F9 0200 181 RETADR_CRG24 = . - 7 ; RETADR ARGUMENT FOR CNTREG
000001F9 0200 182 RETADR_SPT22 = . - 7 ; RETADR ARGUMENT FOR SETPRT
000001F3 0200 183 = . - 13 ; ALLOW ROOM FOR STRING DESCRIPTOR
01F3 184 ; TYPE AAAAA_SSSX5 GO HERE:
00000006 01F3 185 .LONG 6 ; STRING LENGTH (WILL CROSS PSECT BOUNDARY)
000001FB' 01F7 186 .ADDRESS +4 ; STRING ADDRESS
01FB 187 ; TYPE AAAAA_SSSX3 GO HERE:
000001FC 01FB 188 .BLKB 1 ; LOW-ORDER BYTE OF STRING LENGTH
01FC 189 ; TYPE AAAAA_SSSX2 GO HERE:
00000200 01FC 190 .BLKL 1 ; STRING LENGTH
0200 191 :
0200 192 :
0200 193 :
0200 194 :
00000000 195 .PSECT SATS_ACCVIO_2,RD,WRT,NOEXE,PAGE
00000200 0000 196 NOACCESS: .BLKB 512 ; RESERVE A PAGE OF SPACE
00000000 0200 197 = . - 512 ; RETURN LOC CTR TO BEGINNING OF PSECT
00000000' 0000 198 .ADDRESS EMPTY ; ADDRESS OF ACCESSIBLE STRING
00000000' 0004 199 .ADDRESS EMPTY/^X100 ; ADDRESS OF ACCESSIBLE STRING
0008 200 :+
0008 201 : *** NOTE -- DO NOT CHANGE LOCATION OR SEQUENCE OF ABOVE STATEMENTS!
0008 202 : *** THIS PSECT (NOACCESS) MUST APPEAR IN MEMORY IMMEDIATELY
0008 203 : *** FOLLOWING THE EMPTY PSECT. PSECT NAMES AND OPTIONS WILL BE
0008 204 : *** CHOSEN TO FORCE THE DESIRED PSECT ORDERING.
0008 205 : -
0008 206 :
00000010 0008 207 INADR_SPT14: .BLKL 2 ; INADR ARGUMENT FOR SETPRT
0010 208 :
0010 209 :
0010 210 :
00000000 211 .PSECT SATSSF12,RD,WRT,EXE, LONG
```



```
0000 213 .SBTTL SATSSF12
0000 214 :++
0000 215 : FUNCTIONAL DESCRIPTION:
0000 216 :
0000 217 : AFTER PERFORMING SOME INITIAL HOUSEKEEPING, SUCH AS
0000 218 : PRINTING THE MODULE BEGIN MESSAGE AND ACQUIRING ALL PRIVILEGES,
0000 219 : THE SATSSF12 ROUTINE EXECUTES THE TEST SERV EXEC MACRO TO RUN
0000 220 : ALL TEST CASES. WHEN THE MACRO COMPLETES ITS EXECUTION, SATSSF12
0000 221 : PRINTS A TEST MODULE SUCCESS OR FAIL MESSAGE AND EXITS TO THE
0000 222 : OPERATING SYSTEM. TEST SERV EXEC CALLS THE TC CONTROL/TESTSERV
0000 223 : CO-ROUTINE PAIR ONCE PER TEST CASE GROUP TO EXECUTE ALL TEST
0000 224 : CASES IN THAT GROUP. EACH TEST CASE GROUP IS DEFINED BY BOUNDING
0000 225 : ITS TEST CASES WITH A TC GROUP MACRO BEFORE THE FIRST TEST CASE
0000 226 : AND A TCEND MACRO AFTER THE LAST ONE. THE TEST CASES THEMSELVES
0000 227 : ARE DEFINED WITHIN THESE BOUNDS BY PRECEDING EACH WITH A
0000 228 : NEXT TEST CASE MACRO. TC CONTROL/TESTSERV EXECUTES THE CODE
0000 229 : FOLLOWING EACH NEXT TEST CASE MACRO IMMEDIATELY BEFORE ISSUING
0000 230 : THE SYSTEM SERVICE AS REQUESTED IN THE TESTSERV MACRO. TC CONTROL/
0000 231 : TESTSERV ALSO CHECKS THE RESULTS OF THE SERVICE WITH RESPECT
0000 232 : TO ITS EXPECTED STATUS CODE AND PRINTS ANY REQUIRED FAILURE
0000 233 : MESSAGES FOR THE TEST CASE. THE CODE APPEARING AFTER EACH
0000 234 : NEXT TEST CASE MACRO IS MERELY TO SET UP CONDITIONS REQUIRED
0000 235 : FOR THE SYSTEM SERVICE AND TO CLEAN UP ANY RESOURCES ACQUIRED
0000 236 : BY THE PREVIOUS TEST CASE.
0000 237 :
0000 238 : CALLING SEQUENCE:
0000 239 :
0000 240 : $ RUN SATSSF12 ... (DCL COMMAND)
0000 241 :
0000 242 : INPUT PARAMETERS:
0000 243 :
0000 244 : NONE
0000 245 :
0000 246 : IMPLICIT INPUTS:
0000 247 :
0000 248 : NONE
0000 249 :
0000 250 : OUTPUT PARAMETERS:
0000 251 :
0000 252 : NONE
0000 253 :
0000 254 : IMPLICIT OUTPUTS:
0000 255 :
0000 256 : MESSAGES TO SYSS$OUTPUT ARE THE ONLY OUTPUT FROM SATSSF12.
0000 257 : THEY ARE OF THE FORM:
0000 258 :
0000 259 : XUETP-S-SATSMS, TEST MODULE SATSSF12 BEGUN ... (BEGIN MSG)
0000 260 : XUETP-S-SATSMS, TEST MODULE SATSSF12 SUCCESSFUL ... (END MSG)
0000 261 : XUETP-E-SATSMS, TEST MODULE SATSSF12 FAILED ... (END MSG)
0000 262 : XUETP-I-TEXT, ... (VARIABLE INFORMATION ABOUT A TEST MODULE FAILURE)
0000 263 :
0000 264 : COMPLETION CODES:
0000 265 :
0000 266 : THE SATSSF12 ROUTINE TERMINATES WITH A $EXIT TO THE
0000 267 : OPERATING SYSTEM WITH A STATUS CODE DEFINED BY UETP$_SATSMS.
0000 268 :
0000 269 : SIDE EFFECTS:
```

```
0000 270 :  
0000 271 : NONE  
0000 272 :  
0000 273 :--  
0000 274 :  
0000 275 :  
0000 276 :  
0000 277 SATSSF12:  
OFFC 0000 278 .WORD ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>  
0002 279 : ENTRY MASK  
0002 280 $WAKE S TPID : GET PID OF THIS PROCESS  
0011 281 $HIBER S : UNDO WAKE  
0018 282 $SETPRN S TEST MOD_NAME_D : SET PROCESS NAME  
0025 283 BSBW MOD MSG PRINT : PRINT TEST MODULE BEGIN MSG  
0028 284 MOVAL TEST_MOD_SUCC,TMD_ADDR : ASSUME END MSG WILL SHOW SUCCESS  
0033 285 INSV #SUCCESS,#0,#3,MOD_MSG_CODE : ADJUST STATUS CODE FOR SUCCESS  
003C 286 MODE TO,10$,KRNL,NOREGS : KERNEL MODE TO ACCESS PHD  
59 00000000'9F DO 0059 287 MOVL @#CTL$GL PHD,R9 : GET PROCESS HEADER ADDRESS  
00000071'EF 69 DE 0060 288 MOVAL PHD$Q PRIVMSK(R9),PRIVMASK : GET PRIV MASK ADDRESS  
0067 289 MODE FROM,TO$ : GET BACK TO USER MODE  
0068 290 PRIV ADD,ALL : GET ALL PRIVILEGES  
0088 291 DISPSERV : SET UP DISPLAY INFO FOR TESTSERV  
021D 292 $SETPRT S INADR=INADR, RETADR=RETADR, -  
021D 293 PROT=PROT, PRVPRT=PRVPRT  
023E 294 : SET NOACCESS PSECT  
023E 295 : ... FOR NO USER ACCESS  
OCF9 31 023E 296 BRW EXECUTE : GO EXECUTE ALL TEST CASES  
0241 297 :  
0241 298 TC_GROUP ERG,1,TS1  
0268 299 :  
0268 300 NEXT_TEST_CASE SFERG10
```



```
0268 301 :
0268 302 :
0268 303 :
0268 304 :
0268 305 * TEST CASE NAME:          SFERG10
0268 306 *
0268 307 * SYSTEM SERVICE:          EXPREG
0268 308 *
0268 309 * ARGUMENT UNDER TEST:       PAGCNT_ERG10
0268 310 *
0268 311 * INPUT CONDITIONS:
0268 312 *     ILLEGAL PAGE COUNT (ZERO)
0268 313 *
0268 314 * EXPECTED RESULTS:
0268 315 *     1) SYSTEM STATUS CODE:  ILLPAGCNT
0268 316 *     2) REGISTERS R2 THROUGH FP UNCHANGED
0268 317 *
0268 318 :
0268 319 :
00000091'EF D4 0268 320 :
026E 321 : CLRL    PAGCNT_ERG10          ; CLEAR PAGE COUNT
026E 322 :
026E 323 : NEXT_TEST_CASE  SFERG11
```

```
027A 324 :
027A 325 ++
027A 326 *****
027A 327 *
027A 328 * TEST CASE NAME: SFERG11
027A 329 *
027A 330 * SYSTEM SERVICE: EXPREG
027A 331 *
027A 332 * ARGUMENT UNDER TEST: PAGCNT_ERG11
027A 333 *
027A 334 * INPUT CONDITIONS:
027A 335 * ILLEGAL PAGE COUNT (NEGATIVE)
027A 336 *
027A 337 * EXPECTED RESULTS:
027A 338 * 1) SYSTEM STATUS CODE: ILLPAGCNT
027A 339 * 2) REGISTERS R2 THROUGH FP UNCHANGED
027A 340 *
027A 341 *****
027A 342 --
027A 343 :
00000091'EF FF 8F 98 027A 344 CVTBL #-1,PAGCNT_ERG11 ; ASK FOR -1 PAGES
0282 345 :
0282 346 NEXT_TEST_CASE SFERG12
```



00000091'EF FFFE7960 8F D0

028E 347  
028E 348  
028E 349  
028E 350  
028E 351  
028E 352  
028E 353  
028E 354  
028E 355  
028E 356  
028E 357  
028E 358  
028E 359  
028E 360  
028E 361  
028E 362  
028E 363  
028E 364  
028E 365  
028E 366  
028E 367  
0299 368  
0299 369

```

++
*****
* TEST CASE NAME:          SFERG12
* SYSTEM SERVICE:         EXPREG
* ARGUMENT UNDER TEST:    PAGCNT_ERG12
* INPUT CONDITIONS:
*   ILLEGAL PAGE COUNT (NEGATIVE)
* EXPECTED RESULTS:
*   1) SYSTEM STATUS CODE:  ILLPAGCNT
*   2) REGISTERS R2 THROUGH FP UNCHANGED
*****
--

```

```

MOVL    #-100000,PAGCNT_ERG12    ; ASK FOR LARGE NEG NUMBER OF PAGES
NEXT_TEST_CASE  SFERG20

```

```
02A5 370 :
02A5 371 :++
02A5 372 :*****
02A5 373 :*
02A5 374 :* TEST CASE NAME:          SFERG20
02A5 375 :*
02A5 376 :* SYSTEM SERVICE:          EXPREG
02A5 377 :*
02A5 378 :* ARGUMENT UNDER TEST:      RETADR_ERG20
02A5 379 :*
02A5 380 :* INPUT CONDITIONS:
02A5 381 :*   RETURN ADDRESS FIELD AT LOCATION 1.
02A5 382 :*
02A5 383 :* EXPECTED RESULTS:
02A5 384 :*   1) SYSTEM STATUS CODE: ACCVIO
02A5 385 :*   2) REGISTERS R2 THROUGH FP UNCHANGED
02A5 386 :*
02A5 387 :*****
02A5 388 :--
02A5 389 :
02A5 390 :
02A5 391 :      NEXT_TEST_CASE  SFERG21
```



```
02B1 392 :
02B1 393 ++
02B1 394 *****
02B1 395 *
02B1 396 * TEST CASE NAME:          SFERG21
02B1 397 *
02B1 398 * SYSTEM SERVICE:          EXPREG
02B1 399 *
02B1 400 * ARGUMENT UNDER TEST:     RETADR_ERG21
02B1 401 *
02B1 402 * INPUT CONDITIONS:
02B1 403 *   FIRST LONGWORD OF RETURN ADDRESS FIELD IN
02B1 404 *   NON-ACCESSIBLE PSECT.
02B1 405 *
02B1 406 * EXPECTED RESULTS:
02B1 407 *   1) SYSTEM STATUS CODE:  ACCVIO
02B1 408 *   2) REGISTERS R2 THROUGH FP UNCHANGED
02B1 409 *
02B1 410 *****
02B1 411 --
02B1 412 :
02B1 413 :
02B1 414 NEXT_TEST_CASE  SFERG22
```

```
02BD 415 :
02BD 416 +-
02BD 417 *****
02BD 418 *
02BD 419 * TEST CASE NAME:          SFERG22
02BD 420 *
02BD 421 * SYSTEM SERVICE:        EXPREG
02BD 422 *
02BD 423 * ARGUMENT UNDER TEST:   RETADR_ERG22
02BD 424 *
02BD 425 * INPUT CONDITIONS:
02BD 426 *   FIRST LONGWORD OF RETURN ADDRESS FIELD IN
02BD 427 *   ACCESSIBLE PSECT, SECOND LONGWORD IN
02BD 428 *   NON-ACCESSIBLE PSECT.
02BD 429 *
02BD 430 * EXPECTED RESULTS:
02BD 431 *   1) SYSTEM STATUS CODE:  ACCVIO
02BD 432 *   2) REGISTERS R2 THROUGH FP UNCHANGED
02BD 433 *
02BD 434 *****
02BD 435 --
02BD 436 :
02BD 437 :
02BD 438 : NEXT_TEST_CASE  SFERG23
```



```
02C9 439 :
02C9 440 :++
02C9 441 :*****
02C9 442 :
02C9 443 :* TEST CASE NAME:          SFERG23
02C9 444 :
02C9 445 :* SYSTEM SERVICE:          EXPREG
02C9 446 :
02C9 447 :* ARGUMENT UNDER TEST:      RETADR_ERG23
02C9 448 :
02C9 449 :* INPUT CONDITIONS:
02C9 450 :    FIRST LONGWORD OF RETURN ADDRESS FIELD BEGINS
02C9 451 :    IN ACCESSIBLE PSECT, ENDS IN NON-ACCESSIBLE PSECT.
02C9 452 :
02C9 453 :* EXPECTED RESULTS:
02C9 454 :    1) SYSTEM STATUS CODE:  ACCVIO
02C9 455 :    2) REGISTERS R2 THROUGH FP UNCHANGED
02C9 456 :
02C9 457 :*****
02C9 458 :--
02C9 459 :
02C9 460 :
02C9 461 :    NEXT_TEST_CASE  SFERG24
```

```

02D5 462 :
02D5 463 :++
02D5 464 :*****
02D5 465 :
02D5 466 :* TEST CASE NAME:          SFERG24
02D5 467 :*
02D5 468 :* SYSTEM SERVICE:         EXPREG
02D5 469 :*
02D5 470 :* ARGUMENT UNDER TEST:    RETADR_ERG24
02D5 471 :*
02D5 472 :* INPUT CONDITIONS:
02D5 473 :*   SECOND LONGWORD OF RETURN ADDRESS FIELD BEGINS
02D5 474 :*   IN ACCESSIBLE PSECT, ENDS IN NON-ACCESSIBLE PSECT.
02D5 475 :*
02D5 476 :* EXPECTED RESULTS:
02D5 477 :*   1) SYSTEM STATUS CODE:  ACCVIO
02D5 478 :*   2) REGISTERS R2 THROUGH FP UNCHANGED
02D5 479 :*
02D5 480 :*****
02D5 481 :--
02D5 482 :
02D5 483 :
02D5 484 : TCEND

```

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02D6	485 ;		
02D6	486 ;	TC_GROUP	CRG,1,TS2
02FD	487 ;		
02FD	488 ;	NEXT_TEST_CASE	SFCRG10



```
02FD 489 :
02FD 490 ++
02FD 491 *****
02FD 492 *
02FD 493 * TEST CASE NAME: SFCRG10
02FD 494 *
02FD 495 * SYSTEM SERVICE: CNTREG
02FD 496 *
02FD 497 * ARGUMENT UNDER TEST: PAGCNT_CRG10
02FD 498 *
02FD 499 * INPUT CONDITIONS:
02FD 500 * ILLEGAL PAGE COUNT (ZERO)
02FD 501 *
02FD 502 * EXPECTED RESULTS:
02FD 503 * 1) SYSTEM STATUS CODE: ILLPAGCNT
02FD 504 * 2) REGISTERS R2 THROUGH FP UNCHANGED
02FD 505 *
02FD 506 *****
02FD 507 --
00000091'EF D4 02FD 508 :
0303 509 : CLRL PAGCNT_CRG10 ; ZERO OUT REQUESTED PAGE COUNT
0303 510 :
0303 511 : NEXT_TEST_CASE SFCRG11
```

00000091'EF FF 8F 98

```
030F 512 :
030F 513 :+
030F 514 :*****
030F 515 :
030F 516 * TEST CASE NAME: SFCRG11
030F 517 *
030F 518 * SYSTEM SERVICE: CNTREG
030F 519 *
030F 520 * ARGUMENT UNDER TEST: PAGCNT_CRG11
030F 521 *
030F 522 * INPUT CONDITIONS:
030F 523 * ILLEGAL PAGE COUNT (NEGATIVE)
030F 524 *
030F 525 * EXPECTED RESULTS:
030F 526 * 1) SYSTEM STATUS CODE: ILLPAGCNT
030F 527 * 2) REGISTERS R2 THROUGH FP UNCHANGED
030F 528 *
030F 529 :*****
030F 530 :
030F 531 :
030F 532 : CVTBL #-1,PAGCNT_CRG11 ; REQUEST -1 PAGES
0317 533 :
0317 534 : NEXT_TEST_CASE SFCRG12
```

00000091'EF FFFE7960 8F D0

```
0323 535 :
0323 536 :
0323 537 :
0323 538 :
0323 539 * TEST CASE NAME: SFCRG12
0323 540 *
0323 541 * SYSTEM SERVICE: CNTREG
0323 542 *
0323 543 * ARGUMENT UNDER TEST: PAGCNT_CRG12
0323 544 *
0323 545 * INPUT CONDITIONS:
0323 546 * ILLEGAL PAGE COUNT (NEGATIVE)
0323 547 *
0323 548 * EXPECTED RESULTS:
0323 549 * 1) SYSTEM STATUS CODE: ILLPAGCNT
0323 550 * 2) REGISTERS R2 THROUGH FP UNCHANGED
0323 551 *
0323 552 :
0323 553 :
0323 554 :
0323 555 : MOVL #-100000,PAGCNT_CRG12 ; REQUEST LARGE NEG. PAGE COUNT
032E 556 :
032E 557 : NEXT_TEST_CASE SFCRG13
```



```

033A 558 :
033A 559 :++
033A 560 :*****
033A 561 :*
033A 562 :* TEST CASE NAME:          SFCRG13
033A 563 :*
033A 564 :* SYSTEM SERVICE:          CNTREG
033A 565 :*
033A 566 :* ARGUMENT UNDER TEST:     PAGCNT_CRG13
033A 567 :*
033A 568 :* INPUT CONDITIONS:
033A 569 :*   TRY TO CONTRACT EXECUTIVE REGION
033A 570 :*
033A 571 :* EXPECTED RESULTS:
033A 572 :*   1) SYSTEM STATUS CODE:  PAGOWNVIO
033A 573 :*   2) REGISTERS R2 THROUGH FP UNCHANGED
033A 574 :*
033A 575 :*****
033A 576 :--
033A 577 :
033A 578 :MODE      TO,10$,EXEC,NOREGS      ; GET TO EXEC MODE FOR $EXPREG
0357 579 :$EXPREG_S PAGCNT=PAGCNT_CRG13, - ; EXPAND BY ONE PAGE
0357 580 :      RETADR=RETADR_CRG13
036E 581 :MODE      FROM,10$                ; BACK TO USER MODE
036F 582 :
036F 583 :NEXT_TEST_CASE  SFCRG20

```



```
0386 609 :
0386 610 :++
0386 611 :*****
0386 612 :*
0386 613 :* TEST CASE NAME:          SFCRG21
0386 614 :*
0386 615 :* SYSTEM SERVICE:          CNTREG
0386 616 :*
0386 617 :* ARGUMENT UNDER TEST:     RETADR_CRG21
0386 618 :*
0386 619 :* INPUT CONDITIONS:
0386 620 :*   FIRST LONGWORD OF RETURN ADDRESS FIELD IN
0386 621 :*   NON-ACCESSIBLE PSECT.
0386 622 :*
0386 623 :* EXPECTED RESULTS:
0386 624 :*   1) SYSTEM STATUS CODE: ACCVIO
0386 625 :*   2) REGISTERS R2 THROUGH FP UNCHANGED
0386 626 :*
0386 627 :*****
0386 628 :--
0386 629 :
0386 630 :
0386 631 :
NEXT_TEST_CASE SFCRG22
```



```
03C2 632 :
03C2 633 :
03C2 634 :*****
03C2 635 :
03C2 636 :* TEST CASE NAME:          SFCRG22
03C2 637 :*
03C2 638 :* SYSTEM SERVICE:          CNTREG
03C2 639 :*
03C2 640 :* ARGUMENT UNDER TEST:      RETADR_CRG22
03C2 641 :*
03C2 642 :* INPUT CONDITIONS:
03C2 643 :*   FIRST LONGWORD OF RETURN ADDRESS FIELD IN ACCESSIBLE
03C2 644 :*   PSECT, SECOND LONGWORD IN NON-ACCESSIBLE PSECT.
03C2 645 :*
03C2 646 :* EXPECTED RESULTS:
03C2 647 :*   1) SYSTEM STATUS CODE:  ACCVIO
03C2 648 :*   2) REGISTERS R2 THROUGH FP UNCHANGED
03C2 649 :*
03C2 650 :*****
03C2 651 :
03C2 652 :
03C2 653 :
03C2 654 :
NEXT_TEST_CASE  SFCRG23
```

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- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:40:53 VAX/VMS Macro V04-00  
SF CRG23 5-SEP-1984 04:28:55 [UETPSY.SRC] SATSSF12.MAR;1

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```
03CE 655 :  
03CE 656 :++  
03CE 657 :*****  
03CE 658 :*
```

```
03CE 660 : * TEST CASE NAME: SFCRG23
03CE 661 : *
03CE 662 : * SYSTEM SERVICE: CNTREG
03CE 663 : *
03CE 664 : * ARGUMENT UNDER TEST: RETADR_CRG23
03CE 665 : *
03CE 666 : * INPUT CONDITIONS:
03CE 667 : * FIRST LONGWORD OF RETURN ADDRESS FIELD BEGINS IN ACCESSIBLE
03CE 668 : * PSECT, ENDS IN NON-ACCESSIBLE PSECT.
03CE 669 : *
03CE 670 : * EXPECTED RESULTS:
03CE 671 : * 1) SYSTEM STATUS CODE: ACCVIO
03CE 672 : * 2) REGISTERS R2 THROUGH FP UNCHANGED
03CE 673 : *
03CE 674 : *
03CE 675 : *
03CE 676 : *
03CE 677 : *
03CE 678 : *
NEXT_TEST_CASE SFCRG24
```



```
03DA 679 :
03DA 680 ++
03DA 681 *****
03DA 682 *
03DA 683 * TEST CASE NAME: SFCRG24
03DA 684 *
03DA 685 * SYSTEM SERVICE: CNTREG
03DA 686 *
03DA 687 * ARGUMENT UNDER TEST: RETADR_CRG24
03DA 688 *
03DA 689 * INPUT CONDITIONS:
03DA 690 * SECOND LONGWORD OF RETURN ADDRESS FIELD BEGINS IN ACCESSIBLE
03DA 691 * PSECT, ENDS IN NON-ACCESSIBLE PSECT.
03DA 692 *
03DA 693 * EXPECTED RESULTS:
03DA 694 * 1) SYSTEM STATUS CODE: ACCVIO
03DA 695 * 2) REGISTERS R2 THROUGH FP UNCHANGED
03DA 696 *
03DA 697 *****
03DA 698 --
03DA 699 :
03DA 700 :
03DA 701 TCEND
```

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- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:40:53 VAX/VMS Macro V04-00 Page 27  
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03DB	702 :		
03DB	703 :	TC_GROUP	SPT,1,TS3
0402	704 :		
0402	705 :	NEXT_TEST_CASE	SFSPT10

```

0402 706 :
0402 707 :++
0402 708 :*****
0402 709 :*
0402 710 :* TEST CASE NAME:          SFSPT10
0402 711 :*
0402 712 :* SYSTEM SERVICE:          SETPRT
0402 713 :*
0402 714 :* ARGUMENT UNDER TEST:      INADR_SPT10
0402 715 :*
0402 716 :* INPUT CONDITIONS:
0402 717 :*   SET PROTECTION FOR A PAGE OWNED BY EXEC MODE.
0402 718 :*
0402 719 :* EXPECTED RESULTS:
0402 720 :*   1) SYSTEM STATUS CODE:  PAGOWNVIO
0402 721 :*   2) REGISTERS R2 THROUGH FP UNCHANGED
0402 722 :*
0402 723 :*****
0402 724 :--
0402 725 :
0402 726 :   MODE    TO,10$,EXEC,NOREGS      ; GET INTO EXEC MODE FOR EXPREG
041F 727 :   $EXPREG_S PAGCNT=#1, RETADR=EXP_RANGE
0432 728 :
0432 729 :   MODE    FROM,10$                ; GET A 1-PAGE REGION OWNED BY EXEC MODE
0433 730 :   MOVQ    EXP_RANGE,INADR_SPT10    ; BACK TO USER MODE
043E 731 :
043E 732 :   NEXT_TEST_CASE  SFSPT11

```

000000B5'EF    000000BD'EF    7D

```

044A 733 :
044A 734 :++
044A 735 :*****
044A 736 :*
044A 737 :* TEST CASE NAME: SFSPT11
044A 738 :*
044A 739 :* SYSTEM SERVICE: SETPRT
044A 740 :*
044A 741 :* ARGUMENT UNDER TEST: INADR_SPT11
044A 742 :*
044A 743 :* INPUT CONDITIONS:
044A 744 :* SET PROTECTION ON A RANGE OF PAGES IN SYSTEM SPACE.
044A 745 :*
044A 746 :* EXPECTED RESULTS:
044A 747 :* 1) SYSTEM STATUS CODE: NOPRIV
044A 748 :* 2) REGISTERS R2 THROUGH FP UNCHANGED
044A 749 :*
044A 750 :*****
044A 751 :--
044A 752 :
044A 753 : MODE TO,20$,EXEC,NOREGS ; INTO EXEC MODE FOR CNTREG
0467 754 : $CNTREG_S PAGCNT=#1 ; GIVE BACK PAGE ACQUIRED BY SFSPT10
0476 755 : MODE FROM,20$ ; BACK TO USER MODE
0477 756 :
0477 757 : NEXT_TEST_CASE SFSPT12

```



```

0483 758 :
0483 759 ++
0483 760 *****
0483 761 *
0483 762 * TEST CASE NAME: SFSPT12
0483 763 *
0483 764 * SYSTEM SERVICE: SETPRT
0483 765 *
0483 766 * ARGUMENT UNDER TEST: INADR_SPT12
0483 767 *
0483 768 * INPUT CONDITIONS:
0483 769 * SET PROTECTION ON A NON-EXISTENT PAGE.
0483 770 *
0483 771 * EXPECTED RESULTS:
0483 772 * 1) SYSTEM STATUS CODE: LENVIO
0483 773 * 2) REGISTERS R2 THROUGH FP UNCHANGED
0483 774 *
0483 775 *****
0483 776 --
0483 777 :
0483 778 :
048E 779 :
048E 780 :

```

```

000000C5'EF 000000BD'EF 7D 0483 778 MOVQ EXP_RANGE,INADR_SPT12 ; POINT TO NOW UNAVAILABLE RANGE
048E 779 :
048E 780 NEXT_TEST_CASE SFSPT13

```

```

049A 781 :
049A 782 :++
049A 783 :*****
049A 784 :*
049A 785 :* TEST CASE NAME:          SFSPT13
049A 786 :*
049A 787 :* SYSTEM SERVICE:          SETPRT
049A 788 :*
049A 789 :* ARGUMENT UNDER TEST:      INADR_SPT13
049A 790 :*
049A 791 :* INPUT CONDITIONS:
049A 792 :*   INPUT ADDRESS FIELD AT LOCATION 0.
049A 793 :*
049A 794 :* EXPECTED RESULTS:
049A 795 :*   1) SYSTEM STATUS CODE:  ACCVIO
049A 796 :*   2) REGISTERS R2 THROUGH FP UNCHANGED
049A 797 :*
049A 798 :*****
049A 799 :--
049A 800 :
049A 801 :
049A 802 :
NEXT_TEST_CASE SFSPT14

```

```
04A6 803 :  
04A6 804 :++  
04A6 805 :*****  
04A6 806 :*  
04A6 807 :* TEST CASE NAME: SFSPT14  
04A6 808 :*  
04A6 809 :* SYSTEM SERVICE: SETPRT  
04A6 810 :*  
04A6 811 :* ARGUMENT UNDER TEST: INADR_SPT14  
04A6 812 :*  
04A6 813 :* INPUT CONDITIONS:  
04A6 814 :* INPUT ADDRESS FIELD IN NON-ACCESSIBLE PSECT.  
04A6 815 :*  
04A6 816 :* EXPECTED RESULTS:  
04A6 817 :* 1) SYSTEM STATUS CODE: ACCVIO  
04A6 818 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
04A6 819 :*  
04A6 820 :*****  
04A6 821 :--  
04A6 822 :  
04A6 823 :  
04A6 824 : NEXT_TEST_CASE SFSPT20
```

```
04B2 825 :  
04B2 826 ++  
04B2 827 *****  
04B2 828 *  
04B2 829 * TEST CASE NAME: SFSPT20  
04B2 830 *  
04B2 831 * SYSTEM SERVICE: SETPRT  
04B2 832 *  
04B2 833 * ARGUMENT UNDER TEST: RETADR_SPT20  
04B2 834 *  
04B2 835 * INPUT CONDITIONS:  
04B2 836 * RETURN ADDRESS FIELD AT LOCATION 1.  
04B2 837 *  
04B2 838 * EXPECTED RESULTS:  
04B2 839 * 1) SYSTEM STATUS CODE: ACCVIO  
04B2 840 * 2) REGISTERS R2 THROUGH FP UNCHANGED  
04B2 841 *  
04B2 842 *****  
04B2 843 --  
04B2 844  
04B2 845  
04B2 846 NEXT_TEST_CASE SFSPT21
```



```

04BE 847 :
04BE 848 ++
04BE 849 *****
04BE 850 *
04BE 851 * TEST CASE NAME: SFSPT21
04BE 852 *
04BE 853 * SYSTEM SERVICE: SETPRT
04BE 854 *
04BE 855 * ARGUMENT UNDER TEST: RETADR_SPT21
04BE 856 *
04BE 857 * INPUT CONDITIONS:
04BE 858 * RETURN ADDRESS FIELD IN READ-ONLY PSECT.
04BE 859 *
04BE 860 * EXPECTED RESULTS:
04BE 861 * 1) SYSTEM STATUS CODE: ACCVIO
04BE 862 * 2) REGISTERS R2 THROUGH FP UNCHANGED
04BE 863 *
04BE 864 *****
04BE 865 --
04BE 866 :
04BE 867 :
04BE 868 NEXT_TEST_CASE SFSPT22

```

```
04CA 869 :
04CA 870 ++
04CA 871 *****
04CA 872 *
04CA 873 * TEST CASE NAME: SFSPT22
04CA 874 *
04CA 875 * SYSTEM SERVICE: SETPRT
04CA 876 *
04CA 877 * ARGUMENT UNDER TEST: RETADR_SPT22
04CA 878 *
04CA 879 * INPUT CONDITIONS:
04CA 880 * SECOND LONGWORD OF RETURN ADDRESS FIELD BEGINS IN
04CA 881 * ACCESSIBLE PSECT, ENDS IN NON-ACCESSIBLE PSECT.
04CA 882 *
04CA 883 * EXPECTED RESULTS:
04CA 884 * 1) SYSTEM STATUS CODE: ACCVIO
04CA 885 * 2) REGISTERS R2 THROUGH FP UNCHANGED
04CA 886 *
04CA 887 *****
04CA 888 --
04CA 889 :
04CA 890 :
04CA 891 :
NEXT_TEST_CASE SFSPT40
```

```
04D6 892 :  
04D6 893 :++  
04D6 894 :*****  
04D6 895 :*  
04D6 896 :* TEST CASE NAME: SFSPT40  
04D6 897 :*  
04D6 898 :* SYSTEM SERVICE: SETPRT  
04D6 899 :*  
04D6 900 :* ARGUMENT UNDER TEST: PROT_SPT40  
04D6 901 :*  
04D6 902 :* INPUT CONDITIONS:  
04D6 903 :* PROTECTION CODE 1 SPECIFIED.  
04D6 904 :*  
04D6 905 :* EXPECTED RESULTS:  
04D6 906 :* 1) SYSTEM STATUS CODE: IVPROTECT  
04D6 907 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
04D6 908 :*  
04D6 909 :*****  
04D6 910 :--  
04D6 911 :  
04D6 912 :  
04D6 913 : NEXT_TEST_CASE SFSPT41
```

```

04E2 914 :
04E2 915 ++
04E2 916 *****
04E2 917 *
04E2 918 * TEST CASE NAME: SFSPT41
04E2 919 *
04E2 920 * SYSTEM SERVICE: SETPRT
04E2 921 *
04E2 922 * ARGUMENT UNDER TEST: PROT_SPT41
04E2 923 *
04E2 924 * INPUT CONDITIONS:
04E2 925 * PROTECTION CODE 16 SPECIFIED.
04E2 926 *
04E2 927 * EXPECTED RESULTS:
04E2 928 * 1) SYSTEM STATUS CODE: IVPROTECT
04E2 929 * 2) REGISTERS R2 THROUGH FP UNCHANGED
04E2 930 *
04E2 931 *****
04E2 932 --
04E2 933 :
04E2 934 :
04E2 935 NEXT_TEST_CASE SFSPT50

```

```

04EE 936 :
04EE 937 :++
04EE 938 :*****
04EE 939 :*
04EE 940 :* TEST CASE NAME: SFSPT50
04EE 941 :*
04EE 942 :* SYSTEM SERVICE: SETPRT
04EE 943 :*
04EE 944 :* ARGUMENT UNDER TEST: PRVPRT_SPT50
04EE 945 :*
04EE 946 :* INPUT CONDITIONS:
04EE 947 :* PREVIOUS PROTECTION FIELD AT LOCATION 1.
04EE 948 :*
04EE 949 :* EXPECTED RESULTS:
04EE 950 :* 1) SYSTEM STATUS CODE: ACCVIO
04EE 951 :* 2) REGISTERS R2 THROUGH FP UNCHANGED
04EE 952 :*
04EE 953 :*****
04EE 954 :--
04EE 955 :
04EE 956 :
04EE 957 : NEXT_TEST_CASE SFSPT51

```



04FA	958	:
04FA	959	++
04FA	960	*****
04FA	961	*
04FA	962	* TEST CASE NAME: SFSPT51
04FA	963	*
04FA	964	* SYSTEM SERVICE: SETPRT
04FA	965	*
04FA	966	* ARGUMENT UNDER TEST: PRVPRT_SPT51
04FA	967	*
04FA	968	* INPUT CONDITIONS:
04FA	969	* PREVIOUS PROTECTION FIELD IN READ-ONLY PSECT.
04FA	970	*
04FA	971	* EXPECTED RESULTS:
04FA	972	* 1) SYSTEM STATUS CODE: ACCVIO
04FA	973	* 2) REGISTERS R2 THROUGH FP UNCHANGED
04FA	974	*
04FA	975	*****
04FA	976	--
04FA	977	:
04FA	978	:
04FA	979	TCEND

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04FB	980	:		
04FB	981	:	TC_GROUP	SSM,1,TS4
0522	982	:		
0522	983	:	NEXT_TEST_CASE	SFSSM10

SAT  
Sym  
SS8  
SS8  
SS8  
SS8  
SS8  
STS  
SUC  
SWP  
SWP  
SYS  
SYS  
SYS  
SYS  
SYS  
SYS  
SYS  
SYS  
SYS  
SYS  
SYS  
SYS  
TC1  
TC2  
TC3  
TC4  
TCG  
TC  
TES  
TES  
TES  
TES  
TES  
TMO  
TMN  
TPI  
TS1  
TS2  
TS3  
TS4  
TS  
TTR  
UET  
UET  
WAR

```
0522 984 :
0522 985 ++
0522 986 *****
0522 987 *
0522 988 * TEST CASE NAME: SFSSM10
0522 989 *
0522 990 * SYSTEM SERVICE: SETSWM
0522 991 *
0522 992 * ARGUMENT UNDER TEST: SWPFLG_SSM10
0522 993 *
0522 994 * INPUT CONDITIONS:
0522 995 * USER DOES NOT HAVE THE PRIVILEGE TO ALTER
0522 996 * PROCESS SWAP MODE.
0522 997 *
0522 998 * EXPECTED RESULTS:
0522 999 * 1) SYSTEM STATUS CODE: NOPRIV
0522 1000 * 2) REGISTERS R2 THROUGH FP UNCHANGED
0522 1001 *
0522 1002 *****
0522 1003 -
0522 1004 :
0522 1005 PRIV REM,PSWAPM ; REMOVE SWAP MODE PRIVILEGE
0542 1006 :
0542 1007 TCEND
```

```
0543 1008 TS1:
0543 1009 TESTSERV EXPREG,ERR,SATS,
0543 1010
0543 1011 <1,PAGCNT_ERG,
0543 1012 PAGCNT_ERG10,ILLPAGCNT, - : SFERG10
0543 1013 PAGCNT_ERG11,ILLPAGCNT, - : SFERG11
0543 1014 PAGCNT_ERG12,ILLPAGCNT, - : SFERG12
0543 1015 >,
0543 1016
0543 1017 <1,RETADR_ERG,
0543 1018 RETADR_ERG20,ACCVIO, - : SFERG20
0543 1019 RETADR_ERG21,ACCVIO, - : SFERG21
0543 1020 RETADR_ERG22,ACCVIO, - : SFERG22
0543 1021 RETADR_ERG23,ACCVIO, - : SFERG23
0543 1022 RETADR_ERG24,ACCVIO, - : SFERG24
0543 1023 >,
0543 1024
0543 1025 <1,ACMODE_ERG,
0543 1026 >,
0543 1027
0543 1028 <1,REGION_ERG,
0543 1029 >,
0543 1030
07E9 1031 TS_CLEANUP : CLEAN UP & RETURN TO TEST_SERV_EXEC
```

```
0809 1032 TS2:
0809 1033 TESTSERV      CNTREG,ERR,SATS,
0809 1034
0809 1035      <1,PAGCNT_CRG,
0809 1036          PAGCNT_CRG10,ILLPAGCNT, - : SFCRG10
0809 1037          PAGCNT_CRG11,ILLPAGCNT, - : SFCRG11
0809 1038          PAGCNT_CRG12,ILLPAGCNT, - : SFCRG12
0809 1039          PAGCNT_CRG13,PAGOWNVIO, - : SFCRG13
0809 1040          >,
0809 1041
0809 1042      <1,RETADR_CRG,
0809 1043          RETADR_CRG20,ACCVIO, - : SFCRG20
0809 1044          RETADR_CRG21,ACCVIO, - : SFCRG21
0809 1045          RETADR_CRG22,ACCVIO, - : SFCRG22
0809 1046          RETADR_CRG23,ACCVIO, - : SFCRG23
0809 1047          RETADR_CRG24,ACCVIO, - : SFCRG24
0809 1048          >,
0809 1049
0809 1050      <1,ACMODE_CRG,
0809 1051          >,
0809 1052
0809 1053      <1,REGION_CRG,
0809 1054          >,
0809 1055
0AB7 1056 TS_CLEANUP      : CLEAN UP & RETURN TO TEST_SERV_EXEC
```



```
OAD7 1057 TS3:
OAD7 1058 TESTSERV      SETPRT,ERR,SATS,
OAD7 1059
OAD7 1060      <1,INADR_SPT,
OAD7 1061          INADR_SPT10,PAGOWNVIO, - : SFSPT10
OAD7 1062          INADR_SPT11,NOPRIV, - : SFSPT11
OAD7 1063          INADR_SPT12,LENVIO, - : SFSPT12
OAD7 1064          INADR_SPT13,ACCVIO, - : SFSPT13
OAD7 1065          INADR_SPT14,ACCVIO, - : SFSPT14
OAD7 1066          >,
OAD7 1067
OAD7 1068      <1,RETADR_SPT,
OAD7 1069          RETADR_SPT20,ACCVIO, - : SFSPT20
OAD7 1070          RETADR_SPT21,ACCVIO, - : SFSPT21
OAD7 1071          RETADR_SPT22,ACCVIO, - : SFSPT22
OAD7 1072          >,
OAD7 1073
OAD7 1074      <1,ACMODE_SPT,
OAD7 1075          >,
OAD7 1076
OAD7 1077      <1,PROT_SPT,
OAD7 1078          PROT_SPT40,IVPROTECT, - : SFSPT40
OAD7 1079          PROT_SPT41,IVPROTECT, - : SFSPT41
OAD7 1080          >,
OAD7 1081
OAD7 1082      <1,PRVPRT_SPT,
OAD7 1083          PRVPRT_SPT50,ACCVIO, - : SFSPT50
OAD7 1084          PRVPRT_SPT51,ACCVIO, - : SFSPT51
OAD7 1085          >,
OAD7 1086
OE37 1087      TS_CLEANUP      : CLEAN UP & RETURN TO TEST_SERV_EXEC
```

```

OE57 1088 TS4:
OE57 1089 TESTSERV SETSWM,ERR,SATS,
OE57 1090
OE57 1091 <1,SWPFLG_SSM,
OE57 1092 SWPFLG_SSM10,NOPRIV, - ; SFSSM10
OE57 1093 >,
OE57 1094
OF1A 1095 TS_CLEANUP ; CLEAN UP & RETURN TO TEST_SERV_EXEC

```

00000044'EF	01	1C	0138	30	OF3A	1096	.SBTTL EXECUTE & CLEANUP
					OF3A	1097	EXECUTE:
					OF3A	1098	TEST_SERV_EXEC
					OF62	1099	CLEANUP:
					OF62	1100	BSBW MOD_MSG_PRINT
					OF65	1101	INSV #1,TESTSV_INHIB_MSG,#1,MOD_MSG_CODE
					OF6E	1102	
					OF6E	1103	\$EXIT,S MOD_MSG_CODE

: EXECUTE ALL T. CASES IN ALL GROUPS  
: PRINT TEST MODULE END MSG  
: INHIBIT PRINTING  
: EXIT TO OP SYS WITH MSG CODE

```
OF7B 1105 .SBTTL TC_CONTROL
OF7B 1106
OF7B 1107 ++
OF7B 1108 FUNCTIONAL DESCRIPTION:
OF7B 1109
OF7B 1110 THE TC CONTROL SUBROUTINE IS CALLED BY THE TEST_SERV_EXEC
OF7B 1111 MACRO TO EXECUTE A GROUP OF TEST CASES. A GROUP IS DEFINED BY A TC_GROUP
OF7B 1112 MACRO. FOR EACH TC_GROUP MACRO, THERE IS A CORRESPONDING TESTSERV MACRO.
OF7B 1113 TESTSERV CONTAINS CODE TO EXECUTE SYSTEM SERVICES AND CHECK THE RETURNED
OF7B 1114 STATUS CODE VALUES. TESTSERV ARGUMENTS ARE CODED TO SPECIFY ALL THE SYSTEM
OF7B 1115 SERVICE ARGUMENT VALUES AND THE EXPECTED STATUS CODE FOR EACH TEST CASE
OF7B 1116 DEFINED BY A NEXT TEST CASE MACRO WITHIN THE GROUP. TC CONTROL USES A
OF7B 1117 CO-ROUTINE INTERFACE TO ENTER THE CODE OF THE APPROPRIATE TESTSERV MACRO
OF7B 1118 IN VARIOUS PLACES. THE FIRST ENTRY OCCURS ONCE PER GROUP TO ALLOW TESTSERV
OF7B 1119 TO DO SOME INITIALIZATION. THEN TWO ENTRIES ARE MADE FOR EACH TEST CASE IN
OF7B 1120 THE GROUP. THE FIRST ALLOWS TESTSERV TO ISSUE THE SUBJECT SYSTEM SERVICE.
OF7B 1121 THE SECOND ENTRY FOR THE TEST CASE CAUSES TESTSERV TO CHECK THE RETURNED
OF7B 1122 STATUS CODE, PRINTING A FAILURE MESSAGE IF IT IS NOT THE EXPECTED CODE.
OF7B 1123 IF THERE ARE NO MORE TEST CASES IN THE CURRENT GROUP, TESTSERV (NOT TC_CONTROL)
OF7B 1124 RETURNS DIRECTLY TO TEST_SERV_EXEC (RSB ACTUALLY ISSUED IN TS_CLEANUP MACRO)
OF7B 1125 FROM THIS SECOND ENTRY; OTHERWISE, CONTROL RETURNS TO TC_CONTROL WHICH
OF7B 1126 IN TURN ENTERS TESTSERV AGAIN FOR THE NEXT TEST CASE. THE FAILURE OF A
OF7B 1127 TEST CASE DOES NOT CAUSE TERMINATION OF THE TEST MODULE.
OF7B 1128
OF7B 1129 CALLING SEQUENCE:
OF7B 1130
OF7B 1131 BSBW TC_CONTROL (ISSUED WITHIN THE TEST_SERV_EXEC MACRO)
OF7B 1132 (RSB IS ISSUED WITHIN THE TS_CLEANUP MACRO)
OF7B 1133
OF7B 1134 INPUT PARAMETERS:
OF7B 1135
OF7B 1136 NONE
OF7B 1137
OF7B 1138 IMPLICIT INPUTS:
OF7B 1139
OF7B 1140 ARGUMENTS SPECIFIED ON EACH TESTSERV MACRO MAY BE VIEWED AS
OF7B 1141 INPUTS, SINCE TC_CONTROL AND TESTSERV ACT AS CO-ROUTINES.
OF7B 1142
OF7B 1143 OUTPUT PARAMETERS:
OF7B 1144
OF7B 1145 SEVERITY CODE FIELD OF MOD MSG CODE (BITS 0,1,2) IS SET TO ERROR
OF7B 1146 IF ANY TEST CASE IN THE CURRENT GROUP FAILS; OTHERWISE IT REMAINS
OF7B 1147 SET TO SUCCESSFUL.
OF7B 1148
OF7B 1149 IMPLICIT OUTPUTS:
OF7B 1150
OF7B 1151 %UETP-I-TEXT, ERROR MESSAGES ARE WRITTEN TO SYS$OUTPUT BY
OF7B 1152 THE TESTSERV MACRO (CO-ROUTINE WITH TC_CONTROL)
OF7B 1153
OF7B 1154 COMPLETION CODES:
OF7B 1155
OF7B 1156 NONE
OF7B 1157
OF7B 1158 SIDE EFFECTS:
OF7B 1159
OF7B 1160 NONE
OF7B 1161 --
```

```
00000064'EF DD 0F7B 1162
9E 16 0F7B 1163
00000056'EF 20 90 0F7B 1164
002F 30 0F7B 1165 TC_CONTROL:
00000004'FF 16 0F81 1166 PUSHL TS EP
0037 30 0F83 1167 JSB @ (SP)+
9E 16 0F83 1168 10$: MOV B #A/ /,$$TSTN$$+2
0042 30 0F8A 1169 BSBW REG_SAVE
9E 16 0F8D 1171 JSB @CURRENT_TC
002A 30 0F93 1172 BSBW REG_REST
00000056'EF 2A 91 0F96 1173 JSB @ (SP)+
DD 12 0F98 1174 BSBW REG_COMP
00000060'EF 00000088'EF DE 0FA4 1175 JSB @ (SP)+
00000044'EF 03 00 02 FO 0FA6 1177 CMPB #A/* /,$$TSTN$$+2
C7 11 0FB1 1178 BNEQU 10$
0FBA 1181 MOVAL TEST_MOD_FAIL,TMD_ADDR
0FBC 1182 INSV #ERROR,#0,#3,MOD_MSG_CODE
0FBC 1183 BRB 10$
0FBC 1184 ;
```

TC\_CONTROL RETURNS TO TEST\_SERV\_EXEC VIA TESTSERV (IN TS\_CLEANUP MACRO)

; PUSH TESTSERV ENTRY POINT  
; ENTER TESTSERV INITIALIZATION  
; PROCESS NEXT TEST CASE  
; MAKE SURE T.C. NAME HAS A BLANK  
; SAVE REGISTERS  
; JUMP TO CURRENT TEST CASE  
; RESTORE REGS FOR TESTSERV  
; LET TESTSERV ISSUE SYSTEM SERVICE  
; COMPARE REGS TO SEE IF ...  
; ... SYSTEM SERVICE CHANGED ANY  
; LET TESTSERV CHECK S.S. STATUS CODE  
; HAS TESTSERV INDICATED FAILURE ?  
; NO -- PROCESS NEXT TEST CASE  
; YES -- INDICATE FAILED IN END MSG  
; ADJUST STATUS CODE FOR ERROR  
; LOOP BACK TO PROCESS NEXT TEST CASE



```
00000008'EF 7FFF 8F 8B 0FBC 1186 .SBTTL SUBROUTINES
              6E 3C 28 0FBC 1187 REG_SAVE:
              7FFF 8F 05 0FBC 1188 :
              0FBC 1189 :
              0FBC 1190 :
              0FBC 1191 * SAVES R0 THRU SP IN REG_SAVE_AREA
              0FBC 1192 *
              0FBC 1193 :
              0FBC 1194 :
              0FBC 1195 PUSHR #R0_THRU_SP : SAVE ALL REGS ON STACK
              0FCD 1196 MOVCL #60,(SP),REG_SAVE_AREA : SAVE REGS (BEFORE S.S.)
              0FCD 1197 POPR #R0_THRU_SP : CLEAN UP STACK
              0FCD 1198 RSB : .... AND RETURN
              0FCD 1199 :
              0FCD 1200 :
              0FCD 1201 :
              0FCD 1202 :
              0FCD 1203 REG_REST:
              0FCD 1204 :
              0FCD 1205 :
              0FCD 1206 :
              0FCD 1207 * RESTORES R0 THRU SP FROM REG_SAVE_AREA
              0FCD 1208 *
              0FCD 1209 :
              0FCD 1210 :
              0FCD 1211 :
              6E 00000008'EF 3C C2 0FCD 1212 SUBL2 #60,SP : MOVE SP TO MAKE ROOM FOR REGS
              7FFF 8F 05 0FCD 1213 MOVCL #60,REG_SAVE_AREA,(SP) : MOVE REGS ONTO STACK FOR POP
              0FCD 1214 POPR #R0_THRU_SP : RESTORE ALL REGS FOR TESTSERV
              0FCD 1215 RSB : ... AND RETURN
```

```
OFDD 1217 REG_COMP:
OFDD 1218 :
OFDD 1219 :
OFDD 1220 :
OFDD 1221 :
OFDD 1222 :
OFDD 1223 :
OFDD 1224 :
OFDD 1225 :
OFDD 1226 :
OFDD 1227 :
OFDD 1228 :
OFDD 1229 :
OFDD 1230 :
OFDD 1231 :
OFDD 1232 :
OFDD 1233 :
OFDD 1234 :
OFDD 1235 :
OFDD 1236 :
OFDD 1237 :
OFDD 1238 :
OFDD 1239 :
OFDD 1240 :
OFDD 1241 :
OFDD 1242 :
OFDD 1243 :
OFDD 1244 :
OFDD 1245 :
OFDD 1246 :
OFDD 1247 :
OFDD 1248 :
OFDD 1249 :
OFDD 1250 :
OFDD 1251 :
OFDD 1252 :
OFDD 1253 :
OFDD 1254 :
OFDD 1255 :
OFDD 1256 :
OFDD 1257 :
OFDD 1258 :
OFDD 1259 :
OFDD 1260 :
OFDD 1261 :
OFDD 1262 :
OFDD 1263 :
OFDD 1264 :

56 00000008'EF BB DE OFE1 1232 PUSHR #R0_THRU_SP : SAVE ALL REGISTERS ON STACK
    54 5E D0 OFE8 1233 MOVAL REG_SAVE_AREA,R6 : POINT R6 TO BEG OF
    53 FF BF 98 OFE8 1234 MOVL SP,R4 : REGS (BEFORE S.S.)
    53 OF 91 OFF1 1235 CVTBL #-1,R3 : POINT R4 TO BEG OF
    03 1A OFF4 1236 OFE8 1235 : REGS (AFTER S.S.)
    009F 31 OFF6 1237 OFE8 1236 REG_COMP_NEXT: : INITIALIZE REG_COMP_MASK INDEX
    84 B6 D1 OFF9 1238 OFEF 1237 INCL R3 : POINT TO NEXT BIT IN MASK
    E9 00000000'EF 53 E1 OFFE 1239 OFF1 1239 CMPB #15,R3 : END OF THE MASK ?
    00000048'EF 53 D0 1006 1240 OFEF 1238 BGTRU REG_COMP_CONT : NO -- CONTINUE
    0000004C'EF FC A6 D0 100D 1241 OFEF 1239 BRW REG_COMP_RSB : YES -- GO TO COMMON RETURN
    00000050'EF FC A4 D0 1015 1242 OFEF 1240 REG_COMP_CONT: :
    00000056'EF 2A 90 101D 1243 OFEF 1241 CMPL (R6)+,(R4)+ : REG BEFORE = REG AFTER ?
    1024 1251 : BEQLU REG_COMP_NEXT : YES -- LOOK FOR NEXT REG
    1024 1252 : BBC R3,REG_COMP_MASK,REG_COMP_NEXT : NO -- GET NEXT IF BIT NOT SET
    1057 1254 : $FAO_S ERR MSG FAOCTL,OUTL,OUTD,$$SNAD$$, - : NO -- GIVE REG NUMBER TO FAO
    1057 1255 : $$ASEQ$$,$$PSEQ$$,CLOB_REG_NO,REG_BEFORE_SS,REG_AFTER_SS : GIVE 'BEFORE' CONTENTS TO FAO
    105E 1256 : : GIVE 'AFTER' CONTENTS TO FAO
    F0B6 CF F0B0 CF B0 1057 1255 MOVW OUTL,OUTD : GIVE FAILURE INDIC'N IN ERROR MSG
    F09A CF 00B4 BF B0 105E 1256 PUTMSG <#UETPS TEXT,#1,#OUTD> : ACTUAL OUTPUT LEN IN STRING DESC'R
    00000056'EF 20 90 107A 1257 MOVW #OUTE-OUTB,OUTD : PRINT THE MSG
    00000060'EF 00000088'EF DE 1081 1258 MOVW #OUTE-OUTB,OUTD : GET MAX LEN BACK INTO DESCRIPTOR
    00000044'EF 03 00 02 F0 107A 1258 MOVW #A/ /,$$STN$$+2 : REMOVE FAIL INDIC'N FOR NEXT MSG
    FF57 31 1095 1261 INSV #ERROR,#0,#3,MOD_MSG_CODE : INDICATE FAILED IN END MSG
    7FFF BF BA 1098 1262 REG_COMP_RSB: : ADJUST STATUS CODE FOR ERROR
    05 109C 1264 POPR #R0_THRU_SP : GO LOOK FOR NEXT REG TO COMPARE
    RSB : CLEAN UP STACK
    : RETURN TO CALLER
```

```
109D 1266 MOD_MSG_PRINT:
109D 1267 :
109D 1268 :
109D 1269 : *****
109D 1270 : * PRINTS THE TEST MODULE BEGUN/SUCCESSFUL/FAILED MESSAGES *
109D 1271 : * (USING THE PUTMSG MACRO). *
109D 1272 : *****
109D 1273 :
109D 1274 :
05 109D 1275 PUTMSG <MOD_MSG_CODE,#2,TMN_ADDR,TMD_ADDR> : PRINT MSG
1088 1276 RSB ; ...-AND RETURN TO CALLER
1089 1277 :
1089 1278 CHMRTN:
1089 1279 : *****
1089 1280 :
1089 1281 : * CHANGE MODE ROUTINE. THIS ROUTINE GETS CONTROL WHENEVER
1089 1282 : * A CMKRNL, CMEXEC, OR CMSUP SYSTEM SERVICE IS ISSUED
1089 1283 : * BY THE MODE MACRO ('TO' OPTION). IT MERELY DOES
1089 1284 : * A JUMP INDIRECT ON A FIELD SET UP BY MODE. IT HAS
1089 1285 : * THE EFFECT OF RETURNING TO THE END OF THE MODE
1089 1286 : * MACRO EXPANSION.
1089 1287 : *****
1089 1288 :
1089 1289 :
00000079'FF 0000 1089 1290 .WORD 0 ; ENTRY MASK
17 1088 1291 JMP @CHM_CONT ; RETURN TO MODE MACRO IN NEW MODE
10C1 1292 :
10C1 1293 : * RET INSTR WILL BE ISSUED IN EXPANSION OF 'MODE FROM, ....' MACRO
10C1 1294 :
10C1 1295 .END SATSSF12
```

SATSSF12  
Symbol table

K 5

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:40:53 VAX/VMS Macro V04-00  
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\$\$\$CHARS	= 00000048		PAGCNT_ERG	000000BD	R	02
\$\$\$FIRSTTC\$\$\$	= 00000000		PAGCNT_ERG10	00000091	R	03
\$\$\$STRINGS	= 00000000		PAGCNT_ERG11	00000091	R	03
\$\$ACT\$\$	000000F3	R 06	PAGCNT_ERG12	00000091	R	03
\$\$ARG\$\$	000000FB	R 06	PHDSQ_PRIVMSK	= 00000000		
\$\$ASEQ\$\$	000000EB	R 06	PRIVMSK	00000071	R	03
\$\$CALL\$\$	000000DF	R 06	PRIV_ARGS	= 00000002		
\$\$DISP\$\$	000001E6	R 06	PROT	000000B1	R	02
\$\$ERR\$\$	000001A0	R 06	PROT_SPT	000000F1	R	02
\$\$EXP\$\$	000000F7	R 06	PROT_SPT40	000000F5	R	02
\$\$INIT\$\$	000000E3	R 06	PROT_SPT41	000000F9	R	02
\$\$MAXP\$\$	= 00000005		PRTSC_NA	*****	X	02
\$\$PSEQ\$\$	000000EF	R 06	PRTSC_RESERVED	*****	X	02
\$\$SNAD\$\$	000000E7	R 06	PRTSC_UW	*****	X	02
\$\$T1	= 00000004		PRVSV_PSWAPM	= 0000000C		
\$\$T2	= 00000009		PRVPRT	00000070	R	03
\$\$TSTN\$\$	00000054	R 03	PRVPRT_SPT	000000D5	R	03
ACMODE_CRG	000000C9	R 02	PRVPRT_SPT50	= 00000001		
ACMODE_ERG	000000C9	R 02	PRVPRT_SPT51	000000FD	R	02
ACMODE_SPT	000000C9	R 02	PSLSC_USER	= 00000003		
CHMRTN	000010B9	R 06	RO_THRU_SP	= 00007FFF		
CHM_CONT	00000079	R 03	REGION_CRG	000000CD	R	02
CLEANUP	00000F62	R 06	REGION_ERG	000000CD	R	02
CLOB_REG_NO	00000048	R 03	REGS	0000007D	R	03
CTL\$GL_PFD	*****	X 06	REG_AFTER_SS	00000050	R	03
CURRENT_TC	00000004	R 03	REG_BEFORE_SS	0000004C	R	03
EMPTY	00000000	R 04	REG_COMP	00000FDD	R	06
ERROR	= 00000002		REG_COMP_CONT	00000FF9	R	06
ERR_MSG_FAOCTL	00000002	R 02	REG_COMP_MASK	00000000	R	02
EXECUTE	00000F3A	R 06	REG_COMP_NEXT	00000FEF	R	06
EXP_RANGE	000000BD	R 03	REG_COMP_RSB	00001098	R	06
GRP_TOTAL	= 00000004		REG_REST	00000FCD	R	06
INADR	000000A9	R 02	REG_SAVE	00000FBC	R	06
INADR_SPT	000000AD	R 03	REG_SAVE_AREA	00000008	R	03
INADR_SPT10	000000B5	R 03	RETADR	00000068	R	03
INADR_SPT11	000000E1	R 02	RETADR_CRG	0000009D	R	03
INADR_SPT12	000000C5	R 03	RETADR_CRG13	000000A5	R	03
INADR_SPT13	= 00000000		RETADR_CRG20	= 00000001		
INADR_SPT14	00000008	R 05	RETADR_CRG21	000000D9	R	02
INFO	= 00000003		RETADR_CRG22	= 000001FC	R	04
LIB\$SIGNAL	*****	X 06	RETADR_CRG23	= 000001FF	R	04
MEXIT	= 00000000		RETADR_CRG24	= 000001F9	R	04
MOD_MSG_CODE	00000044	R 03	RETADR_ERG	= 00000095	R	03
MOD_MSG_PRINT	0000109D	R 06	RETADR_ERG20	= 00000001		
NARGS	= 00000010		RETADR_ERG21	000000C1	R	02
NOACCESS	00000000	R 05	RETADR_ERG22	= 000001FC	R	04
NSSARGS	= 00000001		RETADR_ERG23	= 000001FF	R	04
ONES	000000B5	R 02	RETADR_ERG24	= 000001F9	R	04
OUTB	0000011C	R 06	RETADR_SPT	000000CD	R	03
OUTD	00000114	R 06	RETADR_SPT20	= 00000001		
OUTE	000001A0	R 06	RETADR_SPT21	000000E9	R	02
OUTL	000000DB	R 06	RETADR_SPT22	= 000001F9	R	04
PAGCNT_CRG	000000D1	R 02	SATSSF12	00000000	R	06
PAGCNT_CRG10	00000091	R 03	SEVERE	= 00000004		
PAGCNT_CRG11	00000091	R 03	SHR\$K_SHRDEF	= 00000001		
PAGCNT_CRG12	00000091	R 03	SHR\$ TEXT	= 00001130		
PAGCNT_CRG13	000000D5	R 02	\$\$\$_ACCVIO	*****	X	06



SATSSF12  
Symbol table

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:40:53 VAX/VMS Macro V04-00  
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SS\$-ILLPAGCNT	*****	X	06
SS\$-IVPROTECT	*****	X	06
SS\$-LENVIO	*****	X	06
SS\$-NOPRIV	*****	X	06
SS\$-PAGOWNVIO	*****	X	06
ST\$V INHIB_MSG	= 0000001C		
SUCCESS	= 00000001		
SWPFLG-SSM	000000FE	R	02
SWPFLG-SSM10	00000102	R	02
SY\$CMEXEC	*****	GX	06
SY\$CMKRNL	*****	GX	06
SY\$CNTREG	*****	GX	06
SY\$DELTVA	*****	GX	06
SY\$EXIT	*****	GX	06
SY\$EXPREG	*****	GX	06
SY\$FAO	*****	X	06
SY\$FAOL	*****	GX	06
SY\$HIBER	*****	GX	06
SY\$SETPRN	*****	GX	06
SY\$SETPRT	*****	GX	06
SY\$SETPRV	*****	GX	06
SY\$SETSWM	*****	GX	06
SY\$WAKE	*****	GX	06
TC1	00000241	R	06
TC2	000002D6	R	06
TC3	000003DB	R	06
TC4	000004FB	R	06
TCG_NO	= 00000004		
TC CONTROL	00000F7B	R	06
TEST_MOD-BEG	00000077	R	02
TEST_MOD-FAIL	00000088	R	02
TEST_MOD-NAME	0000006E	R	02
TEST_MOD-NAME_D	0000008F	R	02
TEST_MOD-SUCC	0000007D	R	02
TMD_ADDR	00000060	R	03
TMN_ADDR	0000005C	R	03
TPID	00000000	R	03
TS1	00000543	R	06
TS2	00000809	R	06
TS3	00000AD7	R	06
TS4	00000E57	R	06
TS_EP	00000064	R	03
TNAME	0000009F	R	02
UETPS-SATSMS	= 007480D9		
UETPS-TEXT	= 00741133		
WARNING	= 00000000		



+-----+  
! Psect synopsis !  
+-----+

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 ( 0.)	00 ( 0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
\$AB\$\$	00000000 ( 0.)	01 ( 1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
RODATA	00000106 ( 262.)	02 ( 2.)	NOPIC USR CON REL LCL NOSHR NOEXE RD NOWRT NOVEC LONG
RWDATA	000000D6 ( 214.)	03 ( 3.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC BYTE
SATS_ACCVIO_1	00000200 ( 512.)	04 ( 4.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC PAGE
SATS_ACCVIO_2	00000200 ( 512.)	05 ( 5.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC PAGE
SATSSF12	000010C1 ( 4289.)	06 ( 6.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC LONG

+-----+  
! Performance indicators !  
+-----+

Phase	Page faults	CPU Time	Elapsed Time
Initialization	35	00:00:00.08	00:00:00.35
Command processing	132	00:00:00.73	00:00:02.90
Pass 1	435	00:00:18.38	00:00:36.28
Symbol table sort	0	00:00:01.23	00:00:02.36
Pass 2	247	00:00:04.72	00:00:09.80
Symbol table output	20	00:00:00.17	00:00:00.48
Psect synopsis output	4	00:00:00.03	00:00:00.03
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	875	00:00:25.37	00:00:52.22

The working set limit was 1950 pages.  
101195 bytes (198 pages) of virtual memory were used to buffer the intermediate code.  
There were 50 pages of symbol table space allocated to hold 678 non-local and 178 local symbols.  
1295 source lines were read in Pass 1, producing 32 object records in Pass 2.  
67 pages of virtual memory were used to define 51 macros.

+-----+  
! Macro library statistics !  
+-----+

Macro library name	Macros defined
_\$255\$DUA28:[SHRLIB]UETP.MLB;1	19
-\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	2
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	24
TOTALS (all libraries)	45

1300 GETS were required to define 45 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSF12/OBJ=OBJ\$:SATSSF12 MSRC\$:SATSSF12/UPDATE=(ENH\$:SATSSF12)+EXECML\$/LIB+SHRLIB\$:UETP/LIB



0420 AH-BT13A-SE  
VAX/VMS V4.0

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